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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/884,577 | 06/18/2001 | Thomas E. Creamer | 6169-227 | 2577 |

7590 03/18/2004

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EXAMINER

BUI, BING Q

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2642

DATE MAILED: 03/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/884,577

Applicant(s)

CREAMER ET AL.

Examiner

Bing Q Bui

Art Unit

2642

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 June 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 June 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>#3 / Sep 07, 20101</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-15 are pending in the application for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1- 8 and 10-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Bunch et al (US Pat No. 6,243,453), herein after referred as Bunch.

Regarding claim 1, referring to figure 1, Bunch teaches a service logic execution environment (SLEE) in an intelligent network model, said network model comprising an application layer and a protocol layer, said SLEE comprising:

a class loader (SCE 14) for loading service components in the SLEE (SCP 18), the SLEE (SCP 18) registering each loaded service component to receive events directed to particular registered service components (see Fig. 1 and col. 3, lns 12-39); and

an event routing bus (SSP or MSP 10) for receiving events from the protocol layer and other service components, said event routing bus (SSP or MSP 10) routing said received events to said particular registered service components executing in the SLEE (SCP 18) (see Fig. 1 and col. 3, Ins 12-39).

Regarding claim 2, Bunch further teaches:

A thread pool (dadabase) (see col. 3, Ins 20-29 and col. 6, Ins 9-23);

a thread pool manager (SMS 16) for allocating threads for use by said loaded service components (see col. 3, Ins 20-29 and col. 6, Ins 9-23)

Regarding claim 3, Bunch further teaches at least one timer for use by service components in the SLEE (see col. 5, Ins 57-60 and col. 9, Ins 41-46).

Regarding claim 4, Bunch further teaches at least one usage counter for recording service request response metrics (see col. 9, Ins 12-23).

Regarding claim 5, Bunch further teaches the event routing bus is further configured to receive events from application components which are external to the SLEE and the protocol layer (see col. 3, Ins 12-39).

Regarding claim 6, Bunch further teaches each service component comprises: at least one service instance; and, a service wrapper for providing an interface to said at least one service instance (see col. 3, Ins 12-39 and col. 5, Ins, 18-44).

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Regarding claim 7, Bunch further teaches each service component further comprises: a deployment descriptor (service logic program) for providing configuration

information to said SLEE, wherein said SLEE can use said deployment descriptor to properly configure said service component (see col. 3, lns 12-39).

Regarding claim 8, Bunch further teaches at least one of said service components contains a protocol stack for managing Communications in a communications network (see col. 3, lns 12-39).

As to claims 10 and 13, they are rejected for the same reasons set forth to rejecting claim 1.

As to claims 11 and 14, they are rejected for the same reasons set forth to rejecting claim 5.

As to claims 12 and 15, they are rejected for the same reasons set forth to rejecting claim 8.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bunch '453 as applied to claim 1 above, and further in view of Glitho et al (US Pat. No. 5,991,803), herein after referred as Glitho.

Regarding claim 9, Bunch fails to explicitly teaches the SLEE implements a JAIN Service Logic Execution Environment (JSLEE) interface. However, Bunch suggests that customer-developed applications are preferably C++ programs or other suitable computer language and Glitho explicitly teaches the service logic execution environments may make use of a general programming language such as JAVA or C++. Therefore, it is obvious that the use of JAVA or other suitable programming language in the service logic execution environments is just a design choice of intended use.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of the art in general:

U.S. Pat. No. 5,436,957

U.S. Pat. No. 5,517,562

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U.S. Pat. No. 6,018,737

U.S. Pat. No. 6,075,854

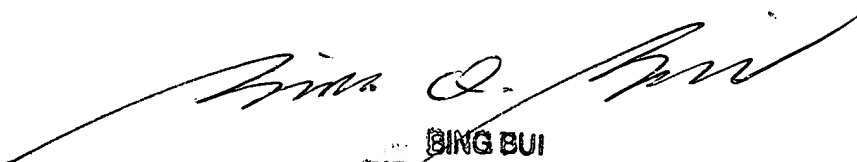
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bing Bui whose telephone number is (703) 308-5858. The examiner can normally be reached on Monday through Thursday from 7:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar, can be reached on (703) 305-4731. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306 and for formal communications intended for entry (please label the response

EXPEDITED PROCEDURE) or for informal or draft communications not intended for entry (please label the response "PROPOSED" or "DRAFT").

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Mar 14, 2004


BING BUI
PATENT EXAMINER